Appl. No. 09/814,552
Supplemental Amdt dated November 13, 2006
Supplemental reply to Office Action of May 17, 2006
Att. Docket No.: 7014-101

Filing date: March 22, 2001
Applicant Name: Henry H. Wheeler, Jr. et al.
Examiner: Rabon A. Sergent
Art Unit: 1711

RECEIVED
CENTRAL FAX CENTER
NOV 13 2006

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 14 (canceled)

Claim 15 (currently amended) A device for mixing and spraying a first polymerization reactant material with a second polymerization reactant material, at least one of the polymerization reactant materials containing a fibrous material, comprising: a mixing block, a spray nozzle having a tip with an inner diameter of ~~at least 0.21~~ about 0.21 to 0.45 thousandths of an inch and having a check valve without springs, a hose for conveying said first and second polymerization materials from the mixing block to a ball valve, said device being capable of spraying a mixture of the first and second polymerization materials from said ~~check valve~~ spray nozzle onto a surface.

Claim 16 (currently amended) The ~~spray nozzle~~ device of claim 15 wherein the fibrous material is an aramid, polyethylene, fullerene, nanotube, ceramic fiber, or mixtures thereof.

Claim 17 (currently amended) The ~~spray nozzle~~ device 16, wherein the aramid fiber is aramid fiber pulp.

Claims 18 - 36 (canceled)

Claim 37 (currently amended) A flexible liner, comprising:

a) a geotextile fabric lining a surface and having pores; and

b) a polyurethane composition comprising a fibrous material, ~~sprayed over~~ formed by spraying said fibrous material and reaction components comprising a polyol

PAGE 3/8 * RCVD AT 11/13/2006 12:52:01 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/7 * DNIS:2738300 * CSID:2135334174 * DURATION (mm-ss):02-44

and an isocyanate together onto said surface-lining geotextile fabric, filling in the pores and forming a one layer monolithic membrane with the geotextile fabric.

Claim 38 (previously presented) The flexible liner of claim 37, wherein the thickness of the polyurethane is sprayed at about 100 mils.

Claim 39 (previously presented) The flexible liner of claim 37, wherein the fibrous material is an aramid, polyethylene, carbon, or ceramic fiber, or mixtures thereof.

Claim 40 (previously presented) The flexible liner of claim 37, wherein the aramid fiber is aramid fiber pulp.

Claim 41 (currently amended) A process for the preparation of a flexible liner comprising:

a) ~~providing~~ layering a sheet of a geotextile fabric having pores and a perimeter edge onto an object to be lined; ~~and~~

b) providing fibrous material and reaction components comprising a polyol and an isocyanate; and

~~b)~~c) spraying ~~a polyurethane composition comprising a~~ said fibrous material and said reaction components together onto said layered sheet of geotextile fabric[[,]] whereby to form a polyurethane composition comprising said fibrous material filling in the pores and forming a one layer monolithic membrane with the geotextile fabric.

Claim 42 (previously presented) The process of claim 41, wherein the spraying of the polyurethane is a thickness of about 100 mils.

Claim 43 (previously presented) The process of claim 41, wherein the fibrous material is an aramid, polyethylene, carbon, or ceramic fiber, or mixtures thereof.

PAGE 4/8 * RCVD AT 11/13/2006 12:52:01 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/7 * DNIS:2738300 * CSID:2135334174 * DURATION (mm-ss):02-44

Claim 44 (previously presented) The process of claim 43, wherein the aramid fiber is aramid fiber pulp.

Claim 45 (canceled)

Claim 46 (currently amended) The process of claim ~~45~~ 41, further comprising attaching the geotextile fabric to the object with an adhesive, prior to spraying the fibrous material and reaction components that form the polyurethane composition, wherein the perimeter edge of the geotextile fabric is not tacked to the object to allow gas to escape.

Claim 47 (currently amended) A device for mixing and spraying a first polymerization reactant material with a second polymerization reactant material, at least one of the polymerization reactant materials containing a fibrous material, comprising: a mixing block, a spray nozzle having a tip with an inner diameter of 0.21 to 0.45 thousands of an inch and having a check valve without springs, a hose for conveying said first and second polymerization materials from the mixing block to a ball valve, said device being capable of spraying a mixture of the first and second polymerization materials from said ~~check valve~~ spray nozzle onto a surface.

PAGE 5/8 * RCVD AT 11/13/2006 12:52:01 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/7 * DNIS:2738300 * CSID:2135334174 * DURATION (mm-ss):02-44